

**JIS COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRICAL ENGINEERING  
CURRICULUM (UG B.TECH COURSE)  
BATCH – 2015 PASSOUT**

**1<sup>ST</sup> SEMESTER**

Sl. No	Code	Paper	Contact Periods / week				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
BS	M101	Mathematics – I	3	1	-	-	4	4	100
BS	CH101	Chemistry - I	3	1	-	-	4	4	100
ES	ES 101	Basic Electrical & Electronic Engineering I	3	1	-	-	4	3	100
HS	HU101	English Language & Technical Communication	3	1	-	-	4	3	100
ES	ME101	Engineering Mechanics	3	1	-	-	4	3	100
BS	CH191	Chemistry I Lab	-	-	3	-	3	2	100
ES	ES 191	Basic Electrical & Electronics Engineering - I Lab	-	-	3	-	3	2	100
ES	ME191	Engineering Drawing & Computer Graphics	1	-	-	3	4	2	100
HS	XC181	Extracurricular activities (NSS/NCC/NSD ETC)-	-	-	-	2	2	-	50
HS	HU181	Language Laboratory	-	-	-	2	2	1	50
Total (Theory)							21	17	500
Total (Practical +Sessional)							13	7	400
GRAND TOTAL (THEORY+PRACTICAL+SESSIONAL)							34	24	900

**2<sup>ND</sup> SEMESTER**

Sl. No	Code	Paper	Contact Periods/ week				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
BS	M 201	Mathematics – II	3	1	-	-	4	4	100
BS	PH 201	Physics - I	3	1	-	-	4	4	100
ES	ES 201	Basic Electrical & Electronics Engineering II	3	1	-	-	4	3	100
ES	CS 201	Basic Computation & Principles of computer programming	3	1	-	-	4	3	100
ES	ME 201	Engineering Thermodynamics & Fluid Mechanics	3	1	-	-	4	3	100
BS	PH 291	Physics - I Lab	-	-	3	-	3	2	100
ES	CS 291	Basic Computation & Principles of computer programming Lab	-	-	3	-	3	2	100
ES	ES 291	Basic Electrical & Electronics Engineering II Lab	-	-	3	-	3	2	100
ES	ME 292	Workshop Practice	1	-	-	3	4	2	100
Total(Theory)							21	17	500
Total(Practical +Sessional)							12	8	400
GRAND TOTAL (THEORY+PRACTICAL+SESSIONAL)							33	25	900

### 3<sup>RD</sup> SEMESTER

Sl. No.	Code	Paper	Contact Periods/ week				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
BS	M(CS)301	Numerical Methods	2	1	-	-	3	2	100
BS	M 302	Mathematics – III	3	1	-	-	4	4	100
PC	EC(EE)301	Analog Electronic Circuits	3	-	-	-	3	3	100
ES	EC(EE)302	Digital Electronic Circuits	3	-	-	-	3	3	100
PC	EE301	Electric Circuit Theory	3	1	-	-	4	4	100
PC	EE302	Field Theory	3	1	-	-	4	4	100
BS	M(CS)391	Numerical Methods	-	-	2	-	2	1	100
PC	EC(EE)391	Analog & Digital Electronic Circuits	-	-	3	-	3	2	100
ES	EE391	Electric Circuit Theory	-	-	3	-	3	2	100
HS	HU 381	Technical Report Writing & Language Lab Practice	-	-	3	-	3	2	100
Total Theory							21	20	600
Total Practical							11	07	400
GRAND TOTAL							32	27	1000

### 4<sup>TH</sup> SEMESTER

Sl. No.	Code	Paper	Contact Periods/ week			Total Contact Hours	Credit	Full Marks	
			L	T	P				
HS	HU401	Values & Ethics in Profession	3	0	0	0	0	100	
BS	PH(EE) 401	Physics – II	3	1	-	4	4	100	
PC	ME(EE)401	Thermal Power Engineering	3	-	-	3	3	100	
BS	CH401	Basic Environmental Engineering & Elementary Biology	3	-	-	3	3	100	
PC	EE 401	Electrical Machines I	3	1	-	4	4	100	
PC	EE 402	Electrical & Electronics Measurement	3	-	-	3	3	100	
BS	PH(EE) 491	Physics II Lab	-	-	3	3	2	100	
PC	ME(EE) 481	Thermal Power Engineering Lab	-	-	3	3	2	100	
PC	EE491	Electrical machine I Lab	-	-	3	3	2	100	
PC	EE 492	Electrical & Electronics Measurement Lab	-	-	3	3	2	100	
Total Theory							20	20	600
Total Practical							12	08	400
TOTAL							32	28	1000

## 5<sup>TH</sup> SEMESTER

Sl. No.	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
HS	HU 501	Economics for Engineers	3	0	0	0	3	2	100
PC	EE501	Electrical Machines II	3	1	0	0	4	4	100
PC	EE502	Power Systems I	3	1	0	0	4	4	100
PC	EE503	Control System I	3	1	0	0	4	4	100
PC	EE504	A. Data Structure & Algorithm B. Computer Organization C. Microprocessor & Microcontrollers	3	0	0	0	3	3	100
PC	EE591	Electrical Machines II Lab	0	0	3	0	3	2	100
PC	EE592	Power Systems I Lab	0	0	3	0	3	2	100
PC	EE593	Control System I Lab	0	0	3	0	3	2	100
PC	EE594	A. Data Structure & Algorithm B. Computer Organization C. Microprocessor & Microcontrollers	0	0	3	0	3	2	100
PC	EE581	Seminar	1	0	0	3	4	2	100
Total theory							19	17	500
Total Practical & Sessional							15	10	500
<b>TOTAL</b>							<b>34</b>	<b>27</b>	<b>1000</b>

## 6<sup>TH</sup> SEMESTER

Sl. No.	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
HS	HU 601	Principles of Management	2	0	0	0	2	2	100
PC	EE601	Control System – II	3	1	0	0	3	4	100
PC	EE602	Power Systems-II	3	1	0	0	3	4	100
PC	EE603	Power Electronics	3	1	0	0	3	4	100
PC	EE604	a. Software Engineering b. Data Base Management System c. Object Oriented Programming d. Embedded Systems.	3	1	0	0	3	3	100
PE	EE 605	a. Digital Signal Processing b. Communication Engineering. c. VLSI & Microelectronics	3	1	0	0	3	2	100
PC	EE691	Control System II	0	0	3	0	3	2	100
PC	EE692	Power Systems II	0	0	3	0	3	2	100
PC	EE693	Power Electronics	0	0	3	0	3	2	100
PC	EE694	a. Software Engineering b. Data Base Management System c. Object Oriented Programming d. Embedded Systems.	0	0	3	0	3	2	100
Total Theory							20	20	600
Total Practical/ Sessional							12	08	400
<b>TOTAL</b>							<b>32</b>	<b>28</b>	<b>1000</b>
#15 days training									

### 7<sup>TH</sup> SEMESTER

Sl. No	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
PC	EE 701	Electric Drives	4	0	0	0	4	4	100
PC	EE 702	Utilization of Electric power	3	1	0	0	4	4	100
PE	EE 703	A. Power System III B. Control System-III C. Electrical Machine-III	3	0	0	0	3	3	100
PE	EE704	A. High Voltage Engineering B. Power Plant Engineering C. Power Generation and Economics D. Renewable & Non-conventional Energy					3		100
PE	EE705	A. Computer Network B. AI & Soft Computing C. Digital Communication D. Digital Image Processing	3	0	0	0	3	3	100
PC	EE781	Seminar on Industrial Training	0	0	3	0	3	2	100
PC	EE791	Electric Drives lab	0	0	3	0	3	2	100
OE	EE792	A. Computer Network B. AI & Soft Computing C. Digital Communication D. Digital Image Processing	0	0	3	0	3	2	100
PC	EE782	Electrical System Design-I	0	0	3	0	3	2	100
PC	EE794	Project-I	0	0	0	0	9	2	100
Total Theory							17	17	500
Total Practical							12	10	500
<b>TOTAL</b>							<b>29</b>	<b>27</b>	<b>1000</b>
# 30 days training report									

### 8<sup>TH</sup> SEMESTER

Sl. No.	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
HS	HU801A	Organizational Behavior	2	0	0	0	2	2	100
PE	EE 801	Elective IV a. HVDC Transmission b. Power Plant Engineering c. Energy Management and Audit	3	0	0	0	3	3	100
PE	EE802	a. Power plant instrumentation & Control b. Illumination Engineering c. Energy management & audit d. Digital Speech Signal Processing	3	0	0	0	3	3	100
Total							08	08	300
PC	EE881	Project	0	0	12	0	12	6	100
PC	EE882	Electrical System Lab II	0	0	6	0	6	4	100
PE	EE883	Grand Viva	0	0	0	0	0	3	100
Total Theory							08	08	300
Total Practical							18	13	300
<b>TOTAL</b>							<b>26</b>	<b>21</b>	<b>600</b>

